

**Medical Care Collection Fund (MCCF)
Electronic Data Interchange (EDI)
Transaction Applications Suite (TAS)
ePharmacy Build 19**

Electronic Claims Management Engine BPS*1.0*31

**Deployment, Installation, Back-out, and Rollback
Guide**



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Revision History

Date	Version	Description	Author
May 2022	1.0	Initial Version	EDI TAS ePharmacy Development Team

Artifact Rationale

This document describes the Deployment, Installation, Back-out, and Rollback Plan for new products going into the VA Enterprise. The plan includes information about system support, issue tracking, escalation processes, and roles and responsibilities involved in all those activities. Its purpose is to provide clients, stakeholders, and support personnel with a smooth transition to the new product or software, and should be structured appropriately, to reflect particulars of these procedures at a single or at multiple locations.

Per the Veteran-focused Integrated Process (VIP) Guide, the Deployment, Installation, Back-out, and Rollback Plan is required to be completed prior to Critical Decision Point #2 (CD #2), with the expectation that it will be updated throughout the lifecycle of the project for each build, as needed.

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1 Introduction

This document describes how to deploy and install BPS*1.0*31, how to back-out the product, and rollback to a previous version or data set.

1.1 Purpose

The purpose of this plan is to provide a single, common document that describes how, when, where, and to whom BPS*1.0*31 will be deployed and installed, as well as how it is to be backed out and rolled back, if necessary. The plan identifies resources, communications plan, and rollout schedule. Specific instructions for installation, back-out, and rollback are included in this document.

1.2 Dependencies

BPS*1.0*26, BPS*1.0*27, and BPS*1.0*30 must be installed BEFORE BPS*1.0*31.

1.3 Constraints

This patch is intended for a fully patched VistA system.

2 Roles and Responsibilities

Table 1: Deployment, Installation, Back-out, and Rollback Roles and Responsibilities

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
1	VA OI&T, VA OI&T Health Product Support, and PMO (Leidos)	Deployment	Plan and schedule deployment (including orchestration with vendors)	Planning
2	Local VAMC and CPAC processes	Deployment	Determine and document the roles and responsibilities of those involved in the deployment.	Planning
3	Field Testing (Initial Operating Capability - IOC), Health Product Support Testing & VIP Release Agent Approval	Deployment	Test for operational readiness	Testing
4	Health product Support and Field Operations	Deployment	Execute deployment	Deployment
5	Individual Veterans Administration Medical Centers (VAMCs)	Installation	Plan and schedule installation	Deployment

ID	Team	Phase / Role	Tasks	Project Phase (See Schedule)
6	VIP Release Agent	Installation	Ensure authority to operate and that certificate authority security documentation is in place	Deployment
7		Installation	Validate through facility POC to ensure that IT equipment has been accepted using asset inventory processes	N/A; only existing VistA system will be used
8	VA's eBusiness team	Installations	Coordinate training	Deployment
9	VIP release Agent, Health Product Support & the development team	Back-out	Confirm availability of back-out instructions and back-out strategy (what are the criteria that trigger a back-out)	Deployment
10	VA OI&T, VA OI&T Health Product Support, and MCCF EDI TAS Development Team (Halfaker)	Post Deployment	Hardware, Software and System Support	Warranty

3 Deployment

The deployment is planned as a national rollout.

This section provides the schedule and milestones for the deployment.

3.1 Timeline

The deployment and installation are scheduled to run for 30 days starting with national release.

3.2 Site Readiness Assessment

This section discusses the locations that will receive the deployment of BPS*1.0*31.

3.2.1 Deployment Topology (Targeted Architecture)

BPS*1.0*31 is to be nationally released to all VAMCs.

3.2.2 Site Information (Locations, Deployment Recipients)

The IOC sites are:

- Birmingham
- Eastern Kansas
- Lexington
- Richmond

3.2.3 Site Preparation

The following table describes preparation required by the site prior to deployment.

Table 2: Site Preparation

Site / Other	Problem / Change Needed	Features to Adapt / Modify to New Product	Actions / Steps	Owner
N/A	N/A	N/A	N/A	N/A

3.3 Resources

3.3.1 Facility Specifics

The following table lists facility-specific features required for deployment.

Table 3: Facility-Specific Features

Site	Space / Room	Features Needed	Other
N/A	N/A	N/A	N/A

3.3.2 Hardware

The following table describes hardware specifications required at each site prior to deployment.

Table 4: Hardware Specifications

Required Hardware	Model	Version	Configuration	Manufacturer	Other
Existing VistA system	N/A	N/A	N/A	N/A	N/A

Please see the Roles and Responsibilities table in Section 2 for details about who is responsible for preparing the site to meet these hardware specifications.

3.3.3 Software

The following table describes software specifications required at each site prior to deployment.

Table 5: Software Specifications

Required Software	Make	Version	Configuration	Manufacturer	Other
Fully patched Electronic Claims Management Engine package within VistA	N/A	1.0	N/A	N/A	N/A
Fully patched Outpatient Pharmacy package within VistA	N/A	7.0	N/A	N/A	N/A
Fully patched Integrated Billing package within VistA	N/A	2.0	N/A	N/A	N/A

Please see the Roles and Responsibilities table in Section 2 above for details about who is responsible for preparing the site to meet these software specifications.

3.3.4 Communications

The sites that are participating in field testing (IOC) will use the “Patch Tracking” message in Outlook to communicate with the ePharmacy eBusiness team, the developers, and product support personnel.

3.3.4.1 Deployment / Installation / Back-out Checklist

The Release Management team will deploy BPS*1.0*31, which is tracked nationally for all VAMCs in the National Patch Module (NPM) in Forum. Forum automatically tracks the patches as they are installed in the different VAMC production systems. One can run a report in Forum to identify when and by whom the patch was installed into the VistA production at each site. A report can also be run to identify which sites have not currently installed the patch into their VistA production system. Therefore, this information does not need to be manually tracked in the chart below.

Table 6: Deployment / Installation / Back-out Checklist

Activity	Day	Time	Individual who completed task
Deploy	N/A	N/A	N/A
Install	N/A	N/A	N/A
Back-out	N/A	N/A	N/A

4 Installation

4.1 Pre-installation and System Requirements

BPS*1.0*31 is installable on a fully patched M(UMPS) VistA system and operates on the top of the VistA environment provided by the VistA infrastructure packages. The latter provides utilities that communicate with the underlying operating system and hardware, thereby providing each VistA package independence from variations in hardware and operating system.

4.2 Platform Installation and Preparation

Refer to the BPS*1.0*31 documentation on the NPM in Forum for the detailed installation instructions. These instructions include any pre-installation steps if applicable.

4.3 Download and Extract Files

Refer to the BPS*1.0*31 documentation on the NPM to find related documentation that can be downloaded. The patch description will be transmitted as a MailMan message from the NPM. This message can also be pulled from the NPM.

4.4 Database Creation

BPS*1.0*31 modifies the VistA database. All changes can be found on the NPM documentation for this patch.

4.5 Installation Scripts

No installation scripts are needed for BPS*1.0*31 installation.

4.6 Cron Scripts

No Cron scripts are needed for BPS*1.0*31 installation.

4.7 Access Requirements and Skills Needed for the Installation

Staff performing the installation of this patch will need access to FORUM's NPM to view the patch description. The software is to be installed by each site's or region's designated VA OIT IT Operations Service, Enterprise Service Lines, VistA Applications Division¹.

4.8 Installation Procedure

Detailed instructions for installing BPS*1.0*31 can be found on the patch description for BPS*1.0*31, which can be found on the NPM.

4.9 Installation Verification Procedure

Refer to the BPS*1.0*31 documentation on the NPM for detailed installation instructions. These instructions include any post installation steps if applicable.

4.10 System Configuration

No system configuration changes are required for this patch.

4.11 Database Tuning

No reconfiguration of the VistA database, memory allocations, or other resources is necessary.

5 Back-out Procedure

Back-out pertains to a return to the last known good operational state of the software and appropriate platform settings.

¹ "Enterprise service lines, VAD" for short. Formerly known as the IRM (Information Resources Management) or IT support.

5.1 Back-Out Strategy

A decision to back out could be made during Site Mirror Testing, during Site Production Testing, or after National Release to the field (VAMCs). The best strategy decision is dependent on the stage during which the decision is made.

5.1.1 Mirror Testing or Site Production Testing

If a decision to back out is made during Mirror Testing or Site Production Testing, a new version of the patch can be used to restore the build components to their pre-patch condition.

5.1.2 After National Release but During the Designated Support Period

If a decision to back out is made after national release and within the designated support period, a new patch will be entered into the NPM in Forum and will go through all the necessary milestone reviews, etc. as a patch for a patch. This patch could be defined as an emergency patch, and it could be used to address specific issues pertaining to the original patch or it could be used to restore the build components to their original pre-patch condition.

5.1.3 After National Release and Warranty Period

After the 90-day warranty period, the VistA Maintenance Program will produce the new patch, either to correct the defective components or restore the build components to their original pre-patch condition.

5.2 Back-out Considerations

Changes implemented with BPS*1.0*31 can be backed out in their entirety or on an enhancement-by-enhancement basis. Either could be accomplished via a new version of BPS*1.0*31 if before national release or a new build if after national release.

5.2.1 Load Testing

N/A. The back-out process will be executed at normal rather than raised job priority and is expected to have no significant effect on total system performance. After the reversion, the performance demands on the system will be unchanged.

5.2.2 User Acceptance Testing

Below are the acceptance criteria for each story included in BPS*1.0*31.

EPHAR-3

- The data dictionary of the field BENEFIT TYPE OPPORTUNITY (#C58-AE) in the file BPS RESPONSES, file 9002313.03 has been updated.
- The data dictionary of the field FORMULARY ALT BENEFIT TIER (#D42-PV) in the file BPS RESPONSES, file 9002313.03 has been updated.
- The Reject Codes have been updated in file BPS NCPDP REJECT CODES, file 9002313.93 to reflect the codes that have been added and renamed.

- When patient type is Veteran new Reject Code can be:
 - selected in the testing tool.
 - received in a claim response and stored in VistA with the claim response.
 - displayed on the ECME User screen.
 - displayed on the Rejected Claims Report and Closed Claims Report.
 - displayed on the LOG Print Claim Log (ECME User Screen and VER).
- When patient type is TRICARE or CHAMPVA new Reject Code can be:
 - selected in the testing tool.
 - received in a claim response and stored in VistA with the claim response.
 - displayed on the ECME User screen.
 - displayed on the Pharmacists' Worklist.
 - displayed on the Pharmacists' View/Process (VP).
 - displayed on the Reject Notification Screen.
 - displayed on the Reject Information Screen.
 - displayed on the Rejected Claims Report and Closed Claims Report.
 - displayed on the LOG Print Claim Log (ECME User Screen and VER).
- New field, Sex Assigned At Birth, is in VistA file BPS NCPDP FIELD DEFS #9002313.91.
- New outgoing field, Sex Assigned At Birth, is in the BPS CLAIMS, subfile TRANSACTIONS #9002313.0201.

EPHAR-44

- File BPS NCPDP REJECT CODES has been updated to reflect the codes that have been added.
- File BPS NCPDP BENEFIT STAGE INDICATOR has been updated to reflect the codes that have been modified.
- File BPS NCPDP PROFESSIONAL SERVICE CODE has been updated to reflect the code that has been added.
- When patient type is Veteran new Reject Code can be:
 - selected in the testing tool.
 - received in a claim response and stored in VistA with the claim response.
 - displayed on the ECME User screen.
 - displayed on the Rejected Claims Report and Closed Claims Report.
 - displayed on the LOG Print Claim Log (ECME User Screen and VER).

- When patient type is TRICARE or CHAMPVA new Reject Code can be:
 - selected in the testing tool.
 - received in a claim response and stored in VistA with the claim response.
 - displayed on the ECME User screen.
 - displayed on the Pharmacists' Worklist.
 - displayed on the Pharmacists' View/Process (VP).
 - displayed on the Reject Notification Screen.
 - displayed on the Reject Information Screen.
 - displayed on the Rejected Claims Report and Closed Claims Report.
 - displayed on the LOG Print Claim Log (ECME User Screen and VER).
- New Professional Service Code can be:
 - selected when performing the OVR action from the Pharmacist Worklist.
 - selected when performing the SMA action from the Pharmacist Worklist.

EPHAR-113

- On the No-Touch Table, the unstranded transactions are all reflected in the Manual category.
- On the Count of Manual vs No-Touch Chart, the unstranded transactions are reflected in the Manual category.
- On the Count of Status Chart, the unstranded transactions continue to reflect in the Unstranded category. Regression
- On the No-Touch Data Point Table, the unstranded transactions are all reflected in the Manual category.
- On the Count of Manual vs No-Touch Data Point Table, the unstranded transactions are reflected in the Manual category.
- On the Count of Status Data Point Table, the unstranded transactions are all reflected in the Unstranded category.
- Previous unstranded transactions are reflected in the Manual category.

EPHAR-1610

- When closing a claim using action REV, the CLOSED BY field on the BPS CLAIMS file is populated correctly with the user name closing the claim.
- ECME Billing Events Report accurately displays the name of the user closing the claim.
- Closed Claims Report accurately displays the name of the user closing the claim.
- Postmaster displays as the Closed By when the software automatically closes the claim (e.g. discontinued RXs, deleted RXs, etc.). Regression.
- When closing a claim using action CLO, the CLOSED BY field on the BPS CLAIMS file continues to populate correctly with the user name closing the claim. Regression.

EPHAR-1622

- Unreleased auto-reversed claims cannot be resubmitted from the ECME User Screen.
- A message is displayed identifying the claim cannot be resubmitted when an attempt is made to resubmit an unreleased auto-reversed claim from the ECME User Screen.
- Unreleased claims that have not been auto-reversed can be resubmitted from the ECME User Screen.
- A previously auto-reversed claim that was released can be resubmitted from the ECME User Screen.
- Manually reversed claims can be resubmitted.
- Unreleased auto-reversed claims can be resubmitted by the pharmacist.
- ECME User Screen actions work as expected for auto-reversed claims that have been released by pharmacy.

5.3 Back-out Criteria

It may be decided to back out this patch if the project is canceled, the requested changes implemented by BPS*1.0*31 are no longer desired by VA OIT and the ePharmacy eBusiness team, or the patch produces catastrophic problems.

5.4 Back-out Risks

Since the ePharmacy software is tightly integrated with external systems, any attempt at a back-out should include close consultation with the external trading partners such as the Financial Services Center (FSC) and the Health Care Clearing House (HCCH) to determine risk.

5.5 Authority for Back-out

Any back-out decision should be a joint decision of the Business Owner (or their representative) and the Program Manager with input from the Health Product Support (HPS) Application Coordinator, developers (both project and Tier 3 HPS), and if appropriate, external trading partners such as the FSC, Change Healthcare, or Transunion.

5.6 Back-out Procedure

The back-out plan for VistA applications is complex and not a “one size fits all” solution. The general strategy for a VistA back-out is to repair the code with a follow-up patch. The development team recommends that sites log a ticket if it is a nationally released patch.

If it is prior to national release, the site will be already working directly with the development team daily and should contact that team. The development team members will have been identified in the Initial Operating Capability (IOC) Memorandum of Understanding (MOU). As discussed in section 5.2, it is likely that development team can quickly address via a new software version. If the site is unsure whom to contact, they may log a ticket or contact Health Product Support - Management Systems Team.

BPS*1.0*31 contains the following build components:

- Routines
- Data Dictionaries
- Files

While the VistA PackMan installation procedure allows the installer to back up the modified routines using the 'Backup a Transport Global' action, the back-out procedure for global, data dictionary, and other VistA components is more complex and requires issuance of a follow-up patch to ensure all components are properly removed and / or restored. All software components (routines and other items) must be restored to their previous state at the same time and in conjunction with the restoration of the data.

Please contact the Enterprise Program Management Office (EPMO) team for assistance since this installed patch contains components in addition to routines.

5.7 Back-out Verification Procedure

Successful back-out is confirmed by verification that the back-out patch was successfully implemented. This includes successful installation and testing that the back-out acts as expected, as defined together with the team the site contacted in section 5.5.

6 Rollback Procedure

Rollback pertains to data. The data changes in this patch are specific to the operational software and platform settings. These data changes are covered in the Back-out procedures detailed elsewhere in this document.

6.1 Rollback Considerations

Not applicable.

6.2 Rollback Criteria

Not applicable.

6.3 Rollback Risks

Not applicable.

6.4 Authority for Rollback

Not applicable.

6.5 Rollback Procedure

Not applicable.

6.6 Rollback Verification Procedure

Not applicable.